

MATERIAL STANDARD

**WIRE, COPPER
5,000-VOLT
POLYETHYLENE-INSULATED**



High-Density, Polyethylene-Insulated Wire shall meet the applicable requirements of ANSI C8.35, Weather-Resistant Wire and Cable, Polyethylene Type, and ICEA S-61-402, (NEMA WC 5), Standards for Thermoplastic-Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy, except as modified herein.

Insulation and Jacket: The insulation shall consist of 6/64ths of an inch of high molecular weight polyethylene, meeting the requirements of ASTM D1248 for Type I, Grade 5, Class C.

A jacket consisting of 4/64ths of an inch of high density polyethylene meeting the requirements of ASTM D1248 for Type III, Grade 4, Class C shall be extruded over the insulation. The minimum thickness of the insulation and jacket shall not be less than 90 percent of the nominal thickness listed in the table below.

Conductor: Medium-hard-drawn copper conductor shall meet the requirements of ASTM B2. Stranding shall be in accordance with ASTM B8.

Reels: The wire shall be shipped on nonreturnable reels of NEMA Standard WC 26 dimensions. The diameter of the arbor hole shall be 2-3/4 inches. The inner end of the wire shall be brought to the outside of the reel flange and securely fastened with steel staples appropriate to the wire size. The inner end shall not be brought out through the reel arbor. The outer end shall be fastened with steel staples, appropriate to the wire size, to the inner side of the flange.

Marking: Each reel shall be legibly marked with the type, weight, length of wire, and the name and address of the manufacturer. Reels must be delivered in the upright position suitable for side unloading by forklift, and not strapped or palleted. Tare weight shall be printed on all reels.

Reference Specifications: ANSI C8.35; ASTM B2, B3, B8, D1248; ICEA S-61-402, NEMA WC 5 & WC 26 (latest revisions).

Approved Manufacturers: Alcoa, Alcan, BICC/General, Hendrix Wire & Cable, Kaiser, Pirelli, Southwire

Stock Unit: FT

Stock Number	Size, AWG	Conductor			Reel Data		
		Type	Temper	Approx. Overall Dia., In.	Designation	Length, Ft.	Weight, Lbs.
610833	6	Solid	MHD	0.478	NR 40.24	5,000	650

ORIGINATOR	STANDARDS COORDINATOR	STANDARDS SUPERVISOR	UNIT DIRECTOR
<i>Jim S. Horn</i>	<i>Charles L. Shaffer</i>	<i>Al Sternberg</i>	<i>Harold J. J.</i>